



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

www.dep.wv.gov

WELL WORK PERMIT
/

Re: Permit approval for

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

Chief

Operator's Well Number:
Farm Name:
U.S. WELL NUMBER:

Date Issued:

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION. OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: EQT Production Company 306686 Wetzel Magnolia New Martinsville
Operator ID County District Quadrangle

2) Operator's Well Number: SMITH 3H Well Pad Name: SMITH

3) Farm Name/Surface Owner: Smith, Sonny & Charlotte Public Road Access: Wetzel County Route 22

4) Elevation, current ground: 1321 Elevation, proposed post-construction: 1321

5) Well Type (a) Gas Oil Underground Storage
Other

(b) If Gas Shallow Deep
Horizontal

6) Existing Pad: Yes or No yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 6,701', 56', 2,500 & 3,000 psi

DMH
10-3-17

8) Proposed Total Vertical Depth: 6,701'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 10,782'

11) Proposed Horizontal Leg Length: 3,411'

12) Approximate Fresh Water Strata Depths: 100

13) Method to Determine Fresh Water Depths: Noticeable flow from flowline or when having to start soaping

14) Approximate Saltwater Depths: 2,183

15) Approximate Coal Seam Depths: 1,018

16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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WW-6B
(04/15)

API NO. 47- 103 - 02905

OPERATOR WELL NO. SMITH 3H

Well Pad Name: SMITH

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	LS	94.1	90'	90'	40- CTS
Fresh Water	13.375"	New	J55	54.5	1,329'KB-1314'GL	1,329'KB-1314'GL	1,140- CTS
Coal	13.375"	New	J55	54.5	1,329'KB-1314'GL	1,329'KB-1314'GL	1,140- CTS
Intermediate	9.625"	New	J55	36.0	2571'	2571'	643Lead - 377Tail CTS
Production	5.5"	New	P110	20.0	10,762'	10,762'	422 Lead - 2341 Tail CTS
Tubing	2.375"	New	J55	4.7		6,500'	N/A
Liners	N/A						

DMH
10-3-17

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.375"	N/A	17 psi	Type 1	1.18
Fresh Water	13.375"	17.5"	0.380"	2,730 psi	2160 psi	Class A	1.20
Coal	13.375"	17.5"	0.380"	2,730 psi	2160 psi	Class A	1.20
Intermediate	9.625"	12.25"	0.352"	3,520 psi	2814 psi	Class A	1.28 Lead - 1.19 Tail
Production	5.5"	8.75"	0.361"	12,360 psi	10112 psi	Class A	2.37 Lead - 1.20 Tail
Tubing	2.375"	N/A	0.190"	7,700 psi		N/A	N/A
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Well has been drilled to TD, propose to perforate and fracture the Marcellus and turn in to production.

DMH
10-7-17

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid, gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 350,000 barrels of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 400,000 pounds of sand per stage.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): no additional

22) Area to be disturbed for well pad only, less access road (acres): no additional

23) Describe centralizer placement for each casing string:

Surface casing had bow spring centralizers placed on joints 28 and 30. Intermediate casing had bow spring centralizers placed on joints 4, 8, 12, 16, 20, 24, 28, 32, 37, 41, 45, 49, 53 and 57. Production casing had rigid spiral centralizers placed on every fourth joint beginning with joint 1 to joint 188. Ran a total of 48 rigid spiral centralizers. Ran bow spring centralizers from joint 196 to joint 244 on every eighth joint. A total of 7 bow spring centralizers were run.

24) Describe all cement additives associated with each cement type:

Fresh water/coal string will be cemented using a slurry of Class A cement with 0.10 lb/sx Cello flake, 0.20% BWOB Anti-foam, and 1.0% BWOB CaCl₂. Intermediate string will be cemented using a lead and tail slurry; Lead is Class A cement with 0.20 gps accelerator, 0.07 gps dispersant, 0.10 gps Anti-Foam, 4.0% BWOB Expanding Agent, and 0.50% BWOB Gas Control Agent. Tail is Class A Cement with 1.0% BWOB CaCl₂, 0.1 lb/sx Cello-Flake, and 0.2% BWOB Anti Foam. Production string will be cemented using a Lead and Tail Slurry; Lead is Class A cement with 0.10 gps dispersant, 0.10 gps Anti-foam, 0.05 gps Retarder, 4.0% BWOB Expanding Agent, and 0.50% BWOB Gas Control Agent. Tail is Class A cement with 0.90% BWOB Dispersant, 0.30% BWOB Fluid loss, 0.20% BWOB Anti-Foam, and 0.60% BWOB Retarder.

25) Proposed borehole conditioning procedures:

Fresh Water/Coal section will be done by circulating air through the drill string at TD between 30 and 60 minutes or until the well bore is clean of cuttings.

Intermediate section will be done by circulating air and/or stiff foam through the drill string at TD between 30 and 120 minutes or until the well bore is clear of cuttings.

Production section will be done by circulating drilling fluid through the drill string at TD between 60 to 720 minutes until the shakers are clear of cuttings and drill string pulls free of bottom.

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*Note: Attach additional sheets as needed.

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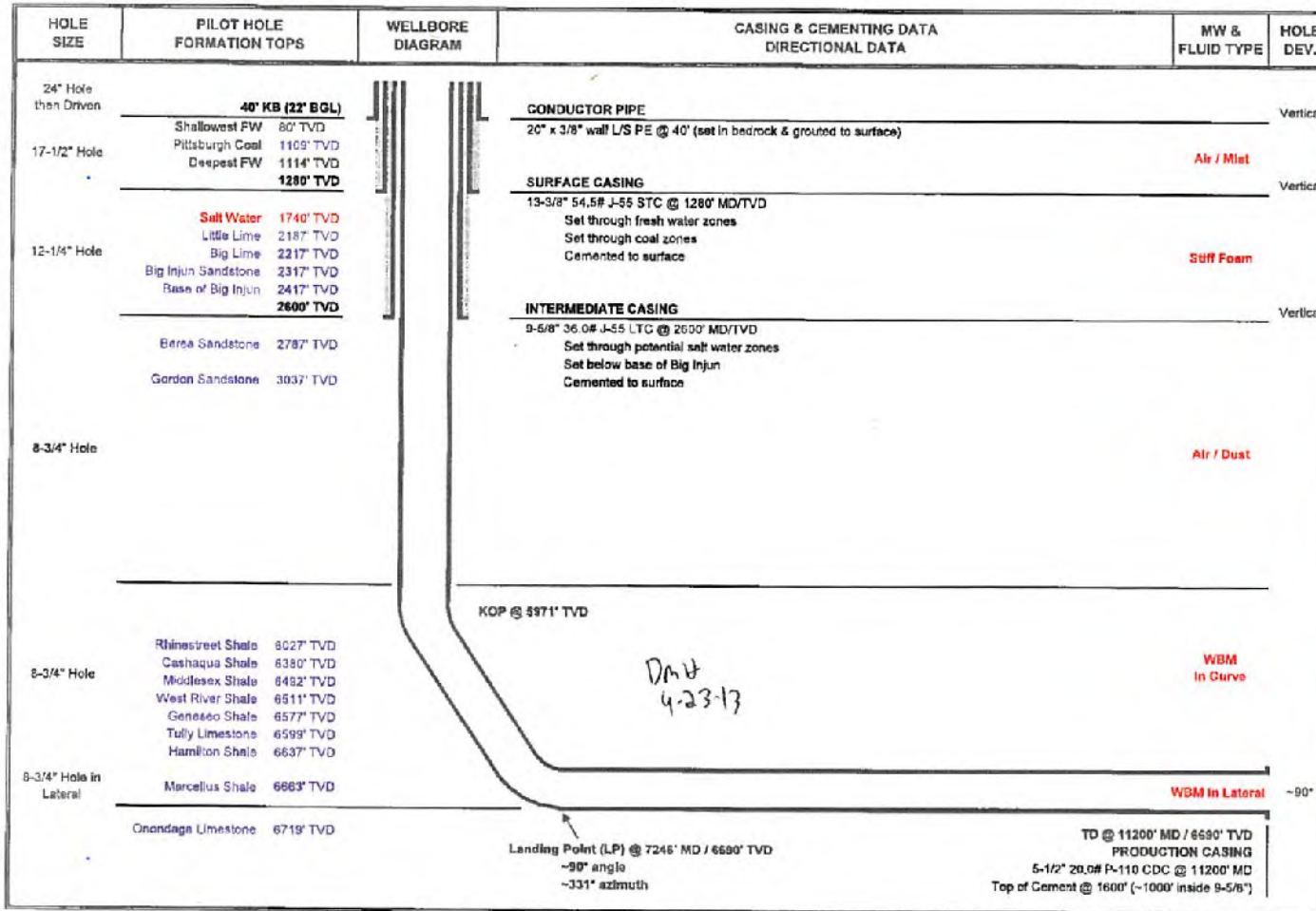
4710302905

Well: Smith #3H
 State: West Virginia
 County: Wetzel
 District: Magnolia
 Prospect: Mary
 Location: Surface: North = 4,388,548 East = 516,227 (UTM NAD 83)
 PBHL: North = 4,389,587 East = 515,320 (UTM NAD 83)
 PTD: 11300' MD / 6590' TVD

STONE ENERGY - PROPOSED HORIZONTAL

Revision: 15-Mar-13

Permit Number: 47-103-0
 Permit Issued:
 As Built Ground Elevation: 1321'
 Kelly Bushing: 18'
 Rig:
 Spud Date:
 TD Date:
 Rig Release Date:



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STONE ENERGY - AS DRILLED TOP HOLE with SLANT

Revision: 16-Jul-14

Well: **Smith #3H TOP HOLE** (AFE# 2014-0003T)
 State: **West Virginia**
 County: **Wetzel**
 District: **Magnolia**
 Prospect: **Mary**
 Location: Surface: (N) 420,271' (E) 1,630,829' State Plane WV North NAD 27
 PBHL: (N) 420,267' (E) 1,630,342' State Plane WV North NAD 27
 PTD: 5808' MD / 5765' TVD

Permit Number: **47-103-02905**
 Permit Issued: **7/31/2013**
 Ground Elevation: **1321'**
 Kelly Bushing: **15'**
 Rig: **NOMAC Rig #237**
 Spud Date: **11/17/2013**
 TD Date: **11/24/2013**
 Rig Release Date: **11/24/2013**

47 103 02905

HOLE SIZE	FORMATION TOPS	WELLBORE DIAGRAM	CASING & CEMENTING DATA	MW & TYPE	HOLE DEV.
Pre-Set Conductor	90' KB (75' BGL)		CONDUCTOR PIPE 20" @ 90' (set in bedrock & cemented)		Vert
17-1/2" Hole (Hammer)	Shallowest FW 100' TVD Pittsburgh Coal 1018' TVD Deepest FW 1023' TVD 1329'		9-5/8" TAM CAP Packer @ 1194' MD/TVD SURFACE CASING Air / Mist 0.3° 13-3/8" 54.5# J-55 STC @ 1329' MD/TVD 1314' GL Set through fresh water and coal zones Do not set deeper than ground elevation Cemented to surface		
12-1/4" Hole (Rock Bit)	RED BEDS Little Lime 2163' TVD Salt Water 2183' TVD Big Lime 2193' TVD Big Injun 2293' TVD Base of Big Injun 2393' TVD 2571'		INTERMEDIATE CASING Stiff Foam 0.4° 9-5/8" 36.0# J-55 LTC @ 2571' MD/TVD Set through potential salt water zones Set below base of Big Injun Cemented to surface		
8-3/4" Hole Slant (Hammer)	Berea 2762' TVD Gordon 2983' TVD		Performed SLANT due to anti-collision concerns:		
8-3/4" Hole to KOP (Hammer)	5765' TVD		Air / Dust 11.1°		
			TOP HOLE TD @ 5808' MD / 5765' TVD (~247' above planned KOP)		
	Rhinestreet Base 6380' TVD Middlesex 6517' TVD West River 6534' TVD Geneseo Shale 6731' TVD Tully LS 6761' TVD Hamilton Shale 6786' TVD Marcellus Shale 6821' TVD Onondaga LS 6871' TVD				

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State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

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API 47 - 103 - 02905 County Wetzel District Magnolia
Quad New Martinsville Pad Name Smith Field/Pool Name Mary
Farm name Smith, Sonny and Charlotte Well Number #3H
Operator (as registered with the OOG) Stone Energy Corporation
Address 1300 Fort Pierpont Dr. - Suite 201 City Morgantown State WV Zip 26508

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,388,548 Easting 516,227
Landing Point of Curve Northing 4,388,694 Easting 515,832
Bottom Hole Northing 4,388,588 Easting 515,322

Elevation (ft) 1,321 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)
Saturated salt mud which includes Caustic Soda, Barite, Lime, New-Drill, Perma-Lose HT, Xan-Plex D, X-Cide 102, Soda Ash, and Sodium Chloride

Date permit issued 7/31/2013 Date drilling commenced 11/17/2013 Date drilling ceased 7/28/2014
Date completion activities began Not Yet Completed Date completion activities ceased Not Yet Completed
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 100 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2,183 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1,018 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

WR-35
Rev. 8/23/13

API 47-103 - 02905 Farm name Smith, Sonny and Charlotte Well number #3H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	24"	20"	90'	New	LS - 94.1 ppf		N - GTS
Surface	17.5"	13.375"	1,329' KB - 1,314' GL	New	J55 - 54.5 ppf	122' & 203'	Y - CTS
Coal	17.5"	13.375"	1,329' KB - 1,314' GL	New	J55 - 54.5 ppf	122' & 203'	Y - CTS
Intermediate 1	12.25"	9.625"	2,571'	New	J55 - 36 ppf		Y - CTS
Intermediate 2							
Intermediate 3							
Production	8.75"	5.5"	10,762'	New	P110 - 20 ppf		N - TOC @ 1,493' Calculated
Tubing							
Packer type and depth set		TAM CAP Inflatable Packer set @ 1,194' on the 9.625" casing string					

Comment Details Circulated 14 bbls cement to surface on 13.375" casing string. Circulated 9 bbls cement to surface on the 9.625" casing string. Circulated 25 bbls TunedSpacer to surface on the 5.5" casing string. TOC on 5.5" @ 1,493' calculated.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Type 1	34	15.6	1.18	40	Surface	24.0
Surface	Class "A"	950	15.6	1.20	1,140	Surface	8.0
Coal	Class "A"	950	15.6	1.20	1,140	Surface	8.0
Intermediate 1	Lead-10% Salt Tail-Class "A"	Lead-502 Tail-317	Lead-15.6 Tail 15.6	Lead-1.28 Tail-1.19	Lead-643 Tail-377	Surface	12.0
Intermediate 2							
Intermediate 3							
Production	Lead-TunedSpacer3 Tail-VariCem	Lead-178 Tail-1,935	Lead- 14.5 Tail-15.2	Lead-2.37 Tail-1.21	Lead-422 Tail-2,341	1,493 calculated	7.0
Tubing							

Drillers TD (ft) 10,782 MD / 6,701 TVD Loggers TD (ft) N/A

Deepest formation penetrated Marcellus Shale Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) 6,060 MD / 6,013' TVD

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING Surface casing had bow spring centralizers placed on joints 28 and 30. Intermediate casing had bow spring centralizers placed on joints 4, 8, 12, 16, 20, 24, 28, 32, 37, 41, 45, 49, 53 and 57. Production casing had rigid spiral centralizers placed on every fourth joint beginning with joint 1 to joint 188. Ran a total of 48 rigid spiral centralizers. Ran bow spring centralizers from joint 196 to joint 244 on every eighth joint. A total of 7 bow spring centralizers were run.

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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API 47- 103 - 02905 Farm name Smith, Sonny and Charlotte Well number #3H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)

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Please insert additional pages as applicable.

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API 47- 103 - 02905 Farm name Smith, Sonny and Charlotte Well number #3H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Not Yet Completed</u>	_____ TVD	_____ MD
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd
GAS MEASURED BY Estimated Orifice Pilot

<u>LITHOLOGY/ FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)</u>
	<u>DEPTH IN FT NAME TVD</u>	<u>DEPTH IN FT TVD</u>	<u>DEPTH IN FT MD</u>	<u>DEPTH IN FT MD</u>	
	0		0		
See Attached Sheet					

Please insert additional pages as applicable.

Drilling Contractor Nomac (top-hole) & Saxon Drilling (horizontal)
Address 2034 Martins Branch Rd /9303 New Trails Drive City Mount Morris / The Woodlands State PA / TX Zip 25312 / 77381

Logging Company Scientific Drilling and Schlumberger
Address 124 Vista Drive / 1178 US HWY 33 East City Charleroi / Weston State PA / WV Zip 15022 / 26452

Cementing Company Schlumberger
Address 1178 US HWY 33 East City Weston State WV Zip 26452

Stimulating Company _____
Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Brian Bell Telephone 304-225-1633
Signature _____ Title Completions Engineer Date _____

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47 10 302905

EQT Production
Hydraulic Fracturing Monitoring Plan
Pad ID: Smith
Wetzel County, WV

9/19/17

Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Wetzel County, WV prior to hydraulic fracturing at the following EQT wells on Smith pad: Smith 1H, Smith 3H

Due to the requirements under 35CSR8 5.11, the permittee is required to review the area surrounding the proposed well pad so as to identify and evaluate potential conduits for unintended fracture propagation. A report is required to be submitted along with a well work permit application.

The plan is being implemented as an additional safety measure to be utilized in conjunction with existing best management practices and emergency action plans for the site. These additional measures include coordination with well operators of the timing and location of the hydraulic fracturing, establishment of measures well operators should implement, and assurance that the OOG is notified of the timeline, as well as any issues that may arise during fracturing.

1. Communications with Well Operators

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known wells and well operators within 500 feet of this pad and the lateral sections that are known or could reasonably be expected to be within range of the fracture propagation. A map showing these wells along with a list of the wells and operators is included in **Attachment A**.

EQT will notify these operators of the hydraulic fracturing schedule for these wells, and coordinate with them throughout the fracturing process.

EQT will recommend to these operators at a minimum to:

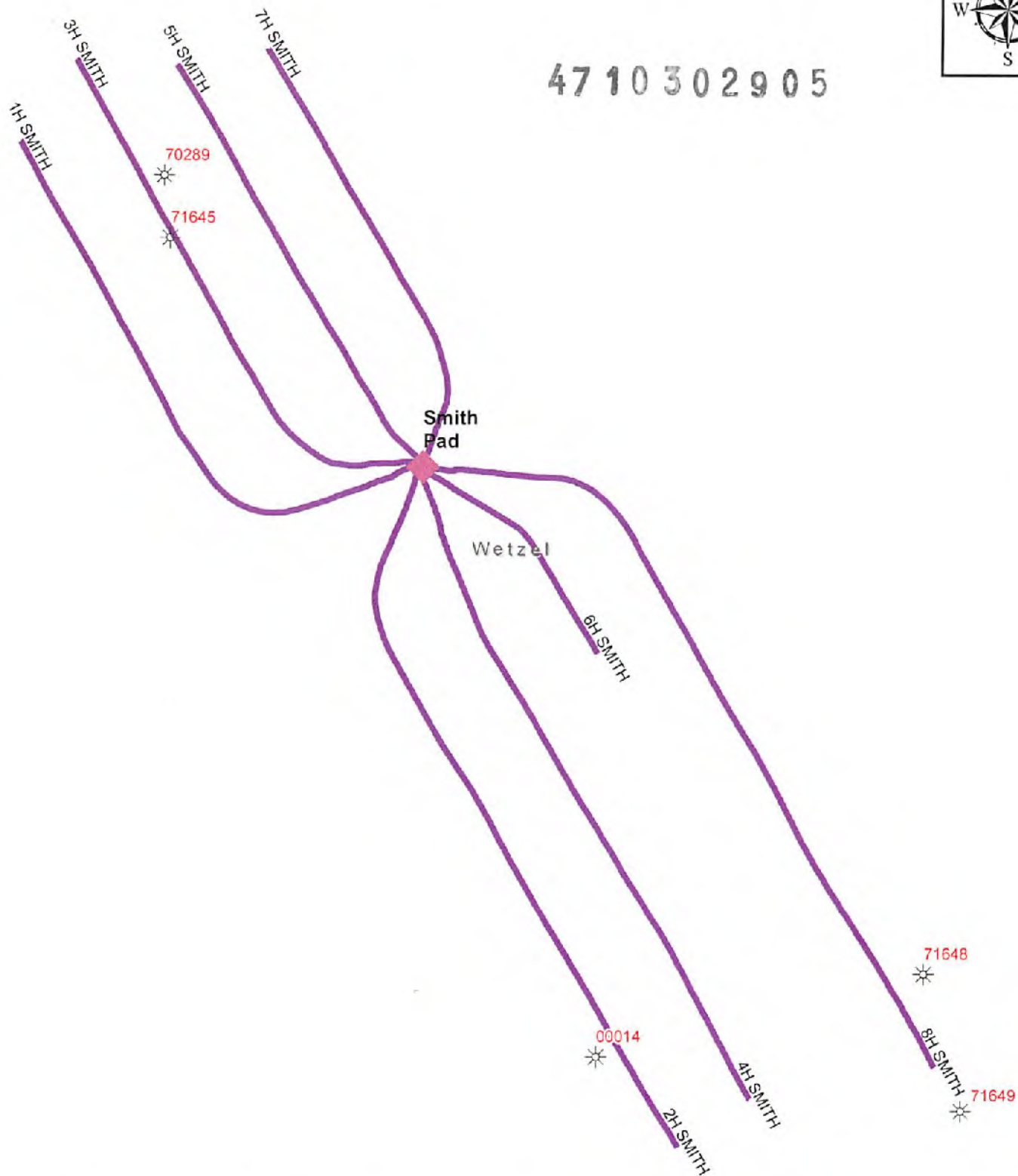
1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
3. Inspect or install master valves or other necessary equipment for wellhead integrity capable of a pressure recommended by EQT
4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

2. Reporting

EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.



47 10 30 29 05

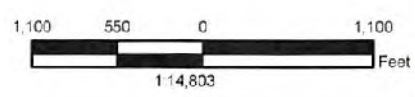


EQT
EQT Corporation
625 Liberty Avenue
Pittsburgh, PA 15222

Vertical Offsets

Smith Pad

SPUD
 MR



Disclaimer:

This map is confidential and is to be used only for the express informational purposes for which it was created. Unauthorized use, copying, or dissemination is strictly prohibited. EQT does not warrant the accuracy of the location of any items shown on this map, including, but not limited to, any structures, well or pipeline facilities, property boundaries, topography, roadways, or waterways. The items shown on the map may not have been placed on the map using survey lines or GPS coordinates. The specific location of any of the map items should be determined by a field survey performed by a licensed surveyor upon consultation with EQT.



Vertical Offsets and Foreign Laterals within 500'

47 10 30 29 05

Well ID	Completion D	Current Operator	Elevation	Elevation Ref	Final Statu:	lat	Long	Permit Date	SPUD Date	TD Formation	Nr Total Depth	Permit
47103702890000		UNKNOWN		GR	PSEUDO	39.653169	-80.81888				0	70289
47103000140000	12/1/1929	LEATHERWOOD INCORPORATED	790	GR	D&A	39.632704	-80.805742	10/17/1929	11/1/1929	BIG INJUN /SD/	1926	00014
47103716450000		UNKNOWN		GR	UNKWN	39.651717	-80.818692				0	71645
47103716490000		UNKNOWN		GR	UNKWN	39.631398	-80.794669				0	71649
47103716480000	8/13/1925	UNKNOWN	888	GR	D&A-OG	39.634591	-80.795796	6/29/1925	7/14/1925	HAMPSHIRE	2842	71648

Attachment A-2

47 10302905

WW-9
(4/16)

API Number 47 - 103 - 02905

Operator's Well No. SMITH 3H

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company OP Code 306886

Watershed (HUC 10) Tributary of of Doolin Run Quadrangle New Martinsville

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 0014, 8462, 4037)
- Reuse (at API Number Various)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: n/a

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. n/a

-If oil based, what type? Synthetic, petroleum, etc. n/a

Additives to be used in drilling medium? n/a

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. n/a

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? n/a

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]

Company Official (Typed Name) Victoria J. Roark

Company Official Title Regional Land Supervisor

Subscribed and sworn before me this 21 day of September, 2017

Rebecca J. Wanstreet Notary Public

My commission expires 4-7-2020

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Office of Oil and Gas

OCT 11 2017

WV Department of
Environmental Protection

DAH
10-3-17

EQT Production Company

Proposed Revegetation Treatment: Acres Disturbed no additional Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type Granular 10-20-20

Fertilizer amount 1/3 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: _____

Title: Oil & Gas Inspector

Date: 10-3-17

Field Reviewed? Yes No

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Office of Oil and Gas

OCT 11 2017

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name STONE ENERGY CORPORATION OP Code 494490923

Watershed Tributary of Doolin Run Quadrangle New Martinsville

Elevation 1,335' County Wetzel District Magnolia

Description of anticipated Pit Waste: There will not be a waste pit constructed on this well site

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a synthetic liner be used in the pit? N/A If so, what mil.? N/A

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number Hunter Disposal 2D0859721, 34-121-24037, 34-121-24086)
- Reuse (at API Number Flow back will be stored in tanks and re-used at other well sites)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Vertical section; Air and Drilling Soap, Curve and Lateral; Brine fluid
-If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used? See Attached WW-9 Addendum

Will closed loop system be used? Both Top Hole and Horizontal drilling rigs will incorporate the use of a closed loop system

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Approved and permitted of site landfill

-If left in pit and plan to solidify what medium will be used? Cement, lime, N/A

-Landfill or offsite name/permit number? Wetzel County Sanitary Landfill (SWF-1021/WW0109185)

*DMH
4-23-13*

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *[Signature]*

Company Official (Typed Name) Timothy P. McGregor

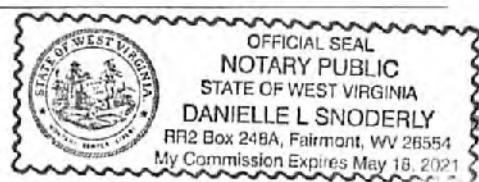
Company Official Title Land Coordinator

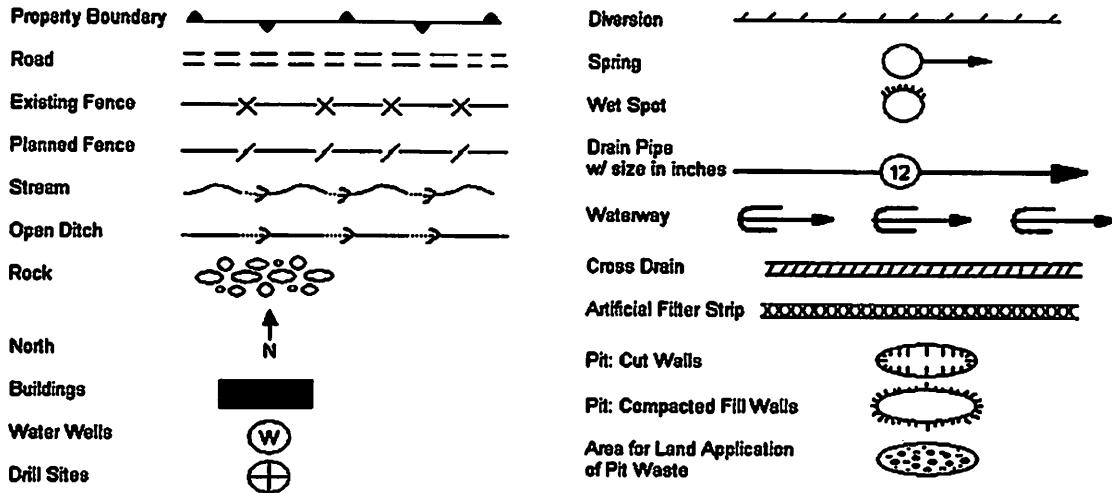
Subscribed and sworn before me this 17th day of April, 2013

[Signature] Notary Public

My commission expires 5/18/2021

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Office of Oil & Gas
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SEP 25 2017
WV Department of
Environmental Protection





Proposed Revegetation Treatment: Acres Disturbed 14.22 Prevegetation pH _____

Lime 2.0 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 - 750 lbs/acre (500 lbs minimum)

Mulch 0.50 to 0.75 TPA + Straw Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre	Seed Type	Area II	lbs/acre
Marcellus Mix		100.0	Marcellus Mix		100.0
White or Ladino Clover		10.0	White or Ladino Clover		10.0
Orchard Grass		40.0	Orchard Grass		40.0
Winter Rye		50.0	Winter Rye		50.0

Attach:
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: _____

Title: Oil + Gas Inspector

Date: 4-23-12

Field Reviewed? Yes No

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Office of Oil & Gas

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Office of Oil and Gas

SEP 25 2017

WV Department of
Environmental Protection



WW-9 ADDENDUM

Drilling Medium Anticipated for This well

- Vertical section of well bore, down to KOP, will be drilled on air and/or a combination of air and drilling soap.
- From KOP through the curve section and horizontal section of well bore will be drilled on a brine-water based mud system.

Additives to be Used While Drilling

- Common additives when air drilling: KCl (CAS No. 1302-78-9 & 14808-60-7), soda ash (CAS No. 497-19-8), shale stabilizer (CAS No. 67-48-1 & 7732-1835), drilling soap (CAS No. 111-76-2), air hammer/motor lubricant.
- Common water based additives for mud drilling: NaCl (CAS No. 7647-14-5), KCl (CAS No. 7447-40-7), barite (CAS No. 13462-86-7 & 14808-60-7), starch (CAS No. 9005-25-8), PAC (CAS No. 9004-32-4), xanthum gum (CAS No. 11138-66-2), PHPA (CAS No. 64742-47-8), polysaccharide (CAS No. 11138-66-2), sulfonated asphaltic material (CAS No. 269-212-0 & 238-878-4), aluminum silicate (CAS No. 37287-16-4), gilsonite (CAS No. 12002-43-6), graphite (CAS No. 14808-60-7 & 7782-42-5), shale stabilizer (CAS No. 67-48-1 & 7732-18-5), fluid loss control polymers (CAS No. 9004-34-6), viscosity control polymers (CAS No. 11138-66-2 & 107-22-2), soda ash (CAS No. 497-19-8), sodium bicarbonate (CAS No. 144-55-8), NaOH (CAS No. 1310-73-2, 7647-14-5, & 7732-18-5), lime (CAS No. 1305-62-0), gypsum (CAS No. 778-18-9), citric acid (CAS No. 77-92-9), biocide (CAS No. 52-51-7 or 7732-18-5 + 67-56-1 + 141-43-5), CaCO₃ (CAS No. 471-34-1), cellulose fibers (CAS No. 14808-60-7), nut plug (CAS No. 9004-34-6 & 14808-60-7), cross-linking polymers (CAS No. 107-22-2 & 11138-66-2), other LCMs, surfactants (CAS No. 64-17-5), ROP enhancer/lubricant (CAS No. 8002-13-9), beads, corrosion inhibitor (CAS No. 7732-18-5), aluminum stearate (CAS No. 300-92-5), defoamer (CAS No. 246-771-9).

MSDS are available upon request.

Dmit
4-23-13

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Office of Oil and Gas

SEP 20 2017

10302905



WW-9 ADDENDUM

Drill Cuttings Disposal Method

- Closed loop drilling system will be incorporated. No waste pits will be constructed. All drill cuttings are put through a drier system and hauled to and disposed of at approved and permitted landfills.

Landfills or Offsite Names and Permit Numbers

Wetzel County Sanitary Landfill
Rt. 1, Box 156A
New Martinsville, WV 26155
SWF-1021 / WV01909185

Brooke County Sanitary Landfill
Colliers, WV 26035
SWF-1013 / WV0109029

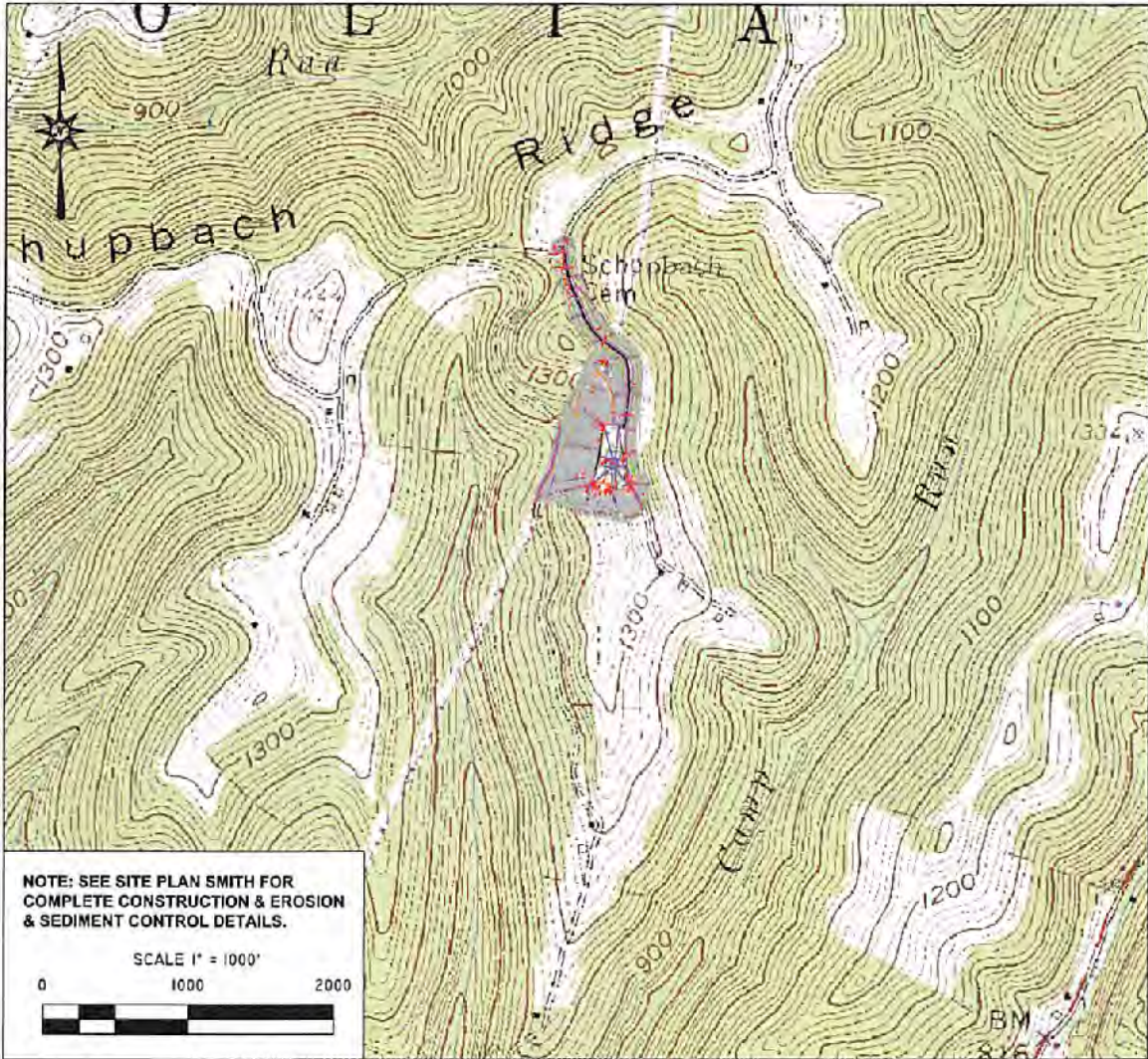
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4-23-13

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Environmental Protection



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Office of Oil and Gas

SEP 25 2017

WV Department of
Environmental Protection

Blue Mountain Inc.
11023 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 562-6486

PREPARED FOR:
EQT Production Co. Inc.
115 Professional Place, P.O. Box 280
Bridgeport, WV 26330

FORM WW9

SMITH WELL
TOPO SECTION OF NEW MARTINSVILLE WV-OHIO
USGS TOPO QUADRANGLE

JUNE 1, 2017



Where energy meets innovation.™

Site Specific Safety Plan

EQT
Smith Pad
New Martinsville
Wetzel County, WV

Smith BH

For Wells:

Date Prepared: June 19, 2017

[Signature]
 EQT Production
[Signature]
 Title
9-20-17
 Date

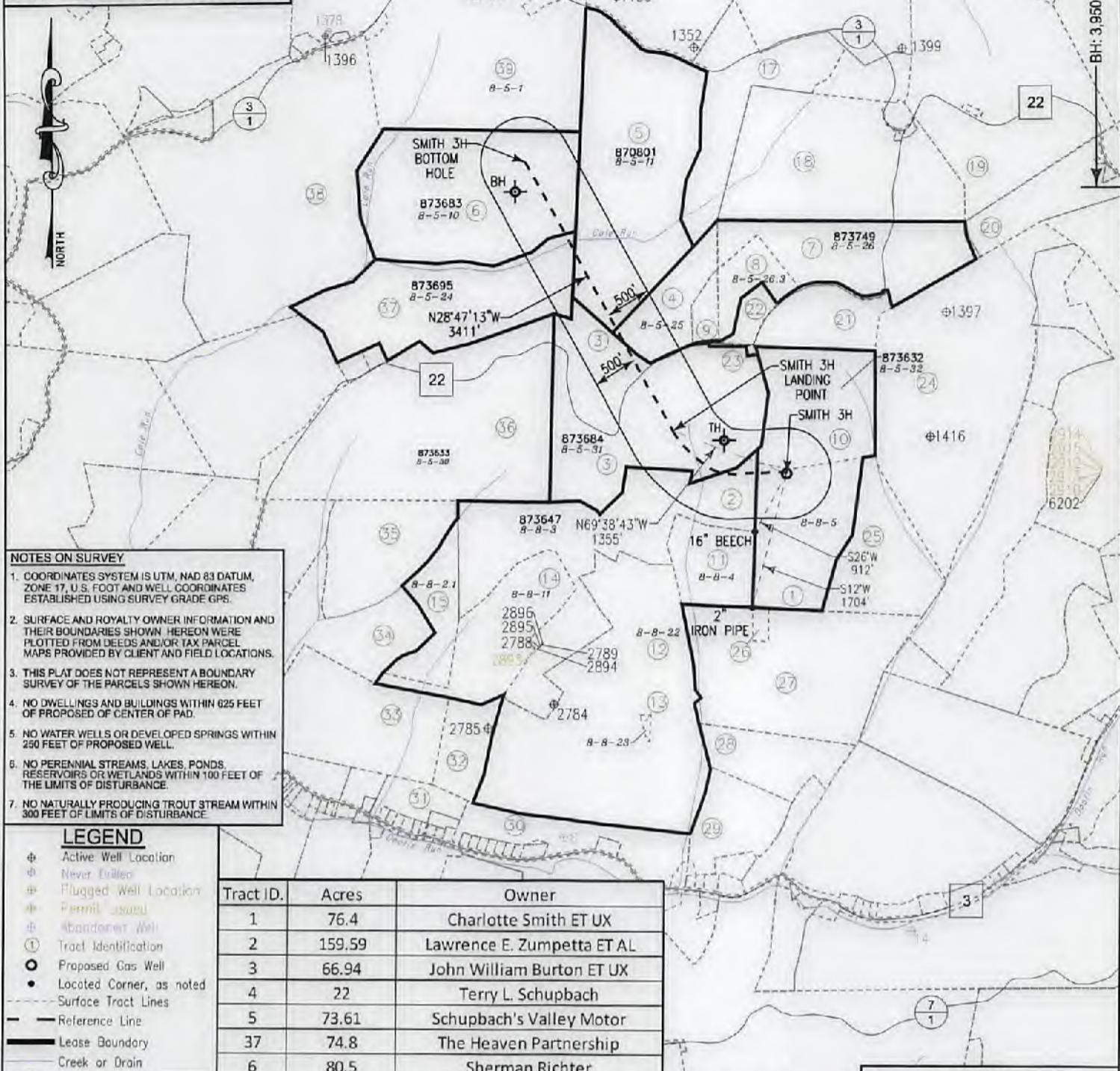
[Signature]
 WV Oil and Gas Inspector
Oil & Gas Inspector
 Title
10-7-17
 Date

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Office of Oil and Gas

OCT 11 2017

WV Department of
Environmental Protection

**Smith 3H
Smith
EQT Production Company**



NOTES ON SURVEY

- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED OF CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
- NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

- LEGEND**
- ⊕ Active Well Location
 - ⊖ Never Drilled
 - ⊕ Plugged Well Location
 - ⊕ Permit Status
 - ⊕ Abandoned Well
 - ① Tract Identification
 - ⊙ Proposed Gas Well
 - Located Corner, as noted
 - Surface Tract Lines
 - Reference Line
 - Lease Boundary
 - Creek or Drain
 - ⊙ WV County Route
 - ⊙ WV State Route

Tract ID.	Acres	Owner
1	76.4	Charlotte Smith ET UX
2	159.59	Lawrence E. Zumpetta ET AL
3	66.94	John William Burton ET UX
4	22	Terry L. Schupbach
5	73.61	Schupbach's Valley Motor
37	74.8	The Heaven Partnership
6	80.5	Sherman Richter

(⊕) Denotes Location of Well on United States Topographic Maps



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Thomas C. Smollus
L. L. S. 687



FILE NO: W2032 (BK 49-6)
DRAWING NO:
SCALE: 1" = 1600'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: FEBRUARY 22 20 18
OPERATORS WELL NO: SMITH 3H
API WELL NO
47 - 103 - 02905
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION ELEVATION: 1335' WATERSHED: TRIBUTARY OF DOOLIN RUN QUADRANGLE: NEW MARTINSVILLE 7.5'
DISTRICT: Magnolia COUNTY: Wetzel

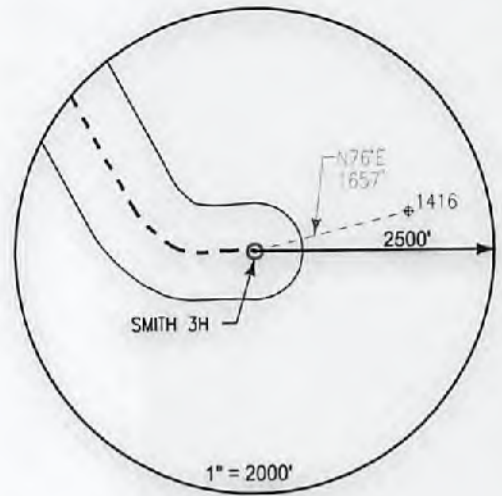
SURFACE OWNER: Charlotte Smith ACREAGE: 38.9 ±
ROYALTY OWNER: Charlotte Smith, ET AL LEASE NO: 873632 ACREAGE: 76.4 ±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 6,740'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Jason Ranson
ADDRESS: 115 Professional Place PO Box 280 ADDRESS: 115 Professional Place PO Box 280
Bridgeport, WV 26330 Bridgeport, WV 26330

**Smith 3H
Smith
EQT Production Company**

Tract ID	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	8	5	Wetzel	Magnolia	Charlotte Smith	38.9
2	8	3	Wetzel	Magnolia	Lawrence E. Zumpetta ET AL	72.86
3	5	31	Wetzel	Magnolia	John William Burton	66.56
4	5	25	Wetzel	Magnolia	Stone Energy Corporation	17.64
5	5	11	Wetzel	Magnolia	Ronald L. Schupbach	89.45
6	5	10	Wetzel	Magnolia	Herman L. & Sherman Richter	80.66
7	5	26	Wetzel	Magnolia	Stone Energy Corporation	39.95
8	5	26.3	Wetzel	Magnolia	Stone Energy Corporation	10.95
9	5	25.1	Wetzel	Magnolia	Stone Energy Corporation	4.19
10	5	32	Wetzel	Magnolia	Charlotte Smith	37.5
11	8	4	Wetzel	Magnolia	Lawrence E. Zumpetta ET AL	15.28
12	8	22	Wetzel	Magnolia	Lawrence E. Zumpetta ET AL	107.5
13	8	23	Wetzel	Magnolia	Lawrence E. Zumpetta ET AL	0.27
14	8	11	Wetzel	Magnolia	Lawrence E. Zumpetta ET AL	36.86
15	8	2.1	Wetzel	Magnolia	Lawrence E. Zumpetta ET AL	18.15
16	5	1	Wetzel	Magnolia	Ronald L. Schupbach	90.33
17	5	12	Wetzel	Magnolia	Melvin E. & Wilda G. Schupbach	36.87
18	5	19	Wetzel	Magnolia	Ronald L. & Monette Schupbach	68.49
19	5	16	Wetzel	Magnolia	Sharon L. Bearce	108.64
20	5	22	Wetzel	Magnolia	Sharon L. Bearce	37.5
21	5	26.2	Wetzel	Magnolia	Franklin Ray Blake	17.73
22	5	26.1	Wetzel	Magnolia	Stone Energy Corporation	3.93
23	5	31.1	Wetzel	Magnolia	Schupbach Cemetery	0.27
24	5	33	Wetzel	Magnolia	Franklin Ray Blake	108.47
25	8	6	Wetzel	Magnolia	Kocher Albert HRS	33.01
26	8	12.1	Wetzel	Magnolia	Ralph Oscar & Jonee Kay Smith	1.23
27	8	12	Wetzel	Magnolia	David L. & Ralph O. Smith	58.15
28	8	24	Wetzel	Magnolia	Gary W. & Linda J. Durig	18.32
29	8	54.1	Wetzel	Magnolia	Gary W. & Linda J. Durig	22.47
30	8	62	Wetzel	Magnolia	Gary W. & Linda J. Durig	57.15
31	8	38.2	Wetzel	Magnolia	George R. Mullett	8.28
32	8	21	Wetzel	Magnolia	Michael L. Mullett	12.25
33	8	20	Wetzel	Magnolia	Billy Darrell Morris	54.66
34	8	10	Wetzel	Magnolia	Myron H. Helmick	35.57
35	8	2	Wetzel	Magnolia	J W Schamp EST	37.54
36	5	30	Wetzel	Magnolia	Wayne A. & Virginia L. Schupbach	93.83
37	5	24	Wetzel	Magnolia	Heaven Partnership	53.59
38	5	8	Wetzel	Magnolia	George E. & Beth Ann Heinzman	141.4
39	5	1	Wetzel	Magnolia	Mark Edwin Scheibelhood	327.66



Notes:
 SMITH 3H As-Built coordinates are
 NAD 27 N: 420,271.000 E: 1,630,829.000
 NAD 27 Lat: 39.646491 Long: -80.811555
 NAD 83 UTM N: 4,388,548.063 E: 516,226.569

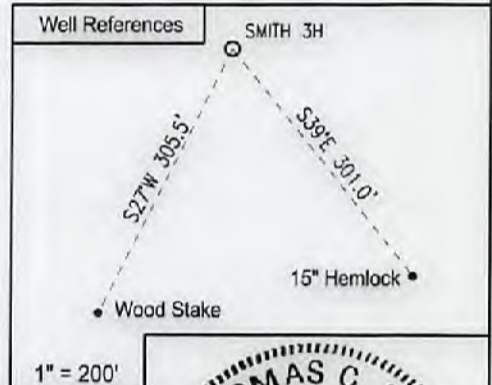
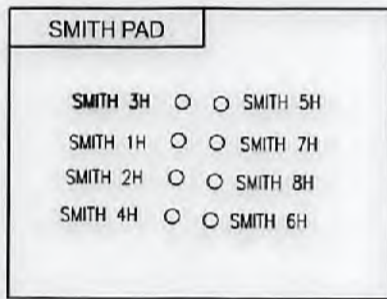
SMITH 3H As-Built Landing Point coordinates are
 NAD 27 N: 420,742.460 E: 1,629,558.280
 NAD 27 Lat: 39.647734 Long: -80.815582
 NAD 83 UTM N: 4,388,685.222 E: 515,837.040

SMITH 3H As-Built Bottom Hole coordinates are
 NAD 27 N: 423,731.640 E: 1,627,915.770
 NAD 27 Lat: 39.655874 Long: -80.821581
 NAD 83 UTM N: 4,389,587.528 E: 515,321.460

West Virginia Coordinates system of 1927 (North Zone)
 based upon Differential GPS Measurements
 Plat orientation, Corner and well ties are based upon
 the grid north meridian
 Well location references are based upon the grid north
 meridian.
 UTM coordinates are NAD83, Zone 17, Meters.

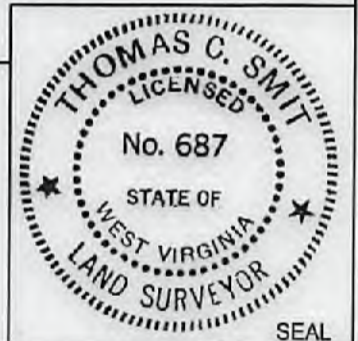
LEGEND

- ⊕ Active Well Location
- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- - - Reference Line
- ▬ Lease Boundary
- ~ Creek or Drain
- Ⓢ WV County Route
- Ⓡ WV State Route



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Thomas C. Smalls
 L. L. S. 687



FILE NO: W2032 (BK 49-6)
 DRAWING NO:
 SCALE: 1" = 1000'
 MINIMUM DEGREE OF ACCURACY:
 1:2500
 PROVEN SOURCE OF ELEVATION:
 NGS CORS Station

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 OIL AND GAS DIVISION

DATE: FEBRUARY 22 20 18
 OPERATORS WELL NO: SMITH 3H
 API WELL NO
 47 - 103 - 02905
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION ELEVATION: 1,335' WATERSHED: TRIBUTARY OF DOLLIN RUN QUADRANGLE: NEW MARTINSVILLE 7.5'

DISTRICT: Magnolia COUNTY: Wetzel

SURFACE OWNER: Charlotte Smith ACREAGE: 38.9 ±
 ROYALTY OWNER: Charlotte Smith, ET AL LEASE NO: 873632 ACREAGE: 76.4 ±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 6,740'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Jason Ranson
 ADDRESS: 115 Professional Place PO Box 280 ADDRESS: 115 Professional Place PO Box 280
 Bridgeport, WV 26330 Bridgeport, WV 26330

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Various	Stone Energy Corp.	EQT Production Company	**	183A/305

** Per West Virginia Code Section 22-5-8

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: EQT Production Company
 By: Victoria J Roark
 Its: Regional Land Supervisor

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

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- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
8-5-11	Schubach Valley Motors	Stone Energy Corp	1/8	112A/390
8-5-10	Sherman Richter	Stone Energy Corp	1/8	122A/832
8-5-10	Herman L Richter	Stone Energy Corp	1/8	122A/834
8-5-10	Piney Holdings	Stone Energy Corp	1/8	122A/818
8-5-10	Betty Lou Goff	Stone Energy Cor	1/8	3/198
8-5-10	Robin M. King	Stone Energy Corp	1/8	124A/943

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

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- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:

By:

STONE ENERGY CORPORATION

[Signature]

Land Coordinator

RECEIVED
Office of Oil and Gas

MAR 13 2018

WV Department of
Environmental Protection

Received
Office of Oil & Gas

MAY 31 2013

10302905

WW-6A1 (Attachment)

Operator's Well Number: Smith 3H

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	Map/Parcel
Robin M. King	Stone Energy Corporation	1/8	124A/943	8-5-10 ✓
Kim Allan Vance	Stone Energy Corporation	1/8	124A/945	8-5-10
Sandra Lee Wright	Stone Energy Corporation	1/8	124A/947	8-5-10
Michael Lee Greathouse	Stone Energy Corporation	1/8	124A/949	8-5-10
Clifford Bruce Kauff	Stone Energy Corporation	1/8	124A/951	8-5-10
Lana Jean Frame	Stone Energy Corporation	1/8	124A/953	8-5-10
Henry K. Bivens	Stone Energy Corporation	1/8	124A/520	8-5-10
Mariann Cutlip	Stone Energy Corporation	1/8	124A/518	8-5-10
Edward C. Cody	Stone Energy Corporation	1/8	124A/516	8-5-10
Kathyrn L. Brown	Stone Energy Corporation	1/8	125A/388	8-5-10
Betty H. Bohoney	Stone Energy Corporation	1/8	125A/390	8-5-10
Curtis Eugene Joy, Jr.	Stone Energy Corporation	1/8	125A/392	8-5-10
Jeanette Ann Hafley	Stone Energy Corporation	1/8	125A/394	8-5-10
Eric Lane Allan	Stone Energy Corporation	1/8	126A/331	8-5-10
Leah E. Chapman Trust	Stone Energy Corporation	1/8	126A/714	8-5-10
Gordon Taiclet	Stone Energy Corporation	1/8	126A/717	8-5-10
Gary Melvin Hafely	Stone Energy Corporation	1/8	126A/712	8-5-10
Carol A. Domingo	Stone Energy Corporation	1/8	125A/855	8-5-10
Elizabeth F. Fitchet	Stone Energy Corporation	1/8	126A/333	8-5-10
Hafely Heirs, LLC	Stone Energy Corporation	1/8	126A/730	8-5-10
Lois Poort, et ux	Stone Energy Corporation	1/8	126A/732	8-5-10
Betty June Hafley Miller, et vir	Stone Energy Corporation	1/8	127/215	8-5-10
John William Burton	Stone Energy Corporation	1/8	114A/713	8-5-31
Lyman B. Waterman, Jr.	Stone Energy Corporation	1/8	131A/696	8-5-31
Sherrell Lee Lallathin	Stone Energy Corporation	1/8	137A/332	8-5-31
Mary Martha Young	Stone Energy Corporation	1/8	39/105	8-5-31
Lisa Hoyt	Stone Energy Corporation	1/8	39/105	8-5-31
Joseph M. Young	Stone Energy Corporation	1/8	39/105	8-5-31
Lois J Hornbrook	Stone Energy Corporation	1/8	39/105	8-5-31
Terry L. Schupbach	Stone Energy Corporation	1/8	39/105	8-5-31
Paul Nieratko Jr	Stone Energy Corporation	1/8	39/105	8-5-31
Charles Menkel	Stone Energy Corporation	1/8	39/105	8-5-31
James Young	Stone Energy Corporation	1/8	39/105	8-5-31
Charles L. McGowen, Jr., et ux	Stone Energy Corporation	1/8	88A/305	8-8-3
Lawrence E. Zumpetta, et ux	Stone Energy Corporation	1/8	88A/309	8-8-3
John C. Bober, III, et ux	Stone Energy Corporation	1/8	88A/313	8-8-3
David T. Griffith	Stone Energy Corporation	1/8	88A/317	8-8-3
Jay H. Renner	Stone Energy Corporation	1/8	89A/93	8-8-3
B&R Construction	Stone Energy Corporation	1/8	112A/416	8-8-3

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that

I am the person who signed the Notice and Application for the Applicant, and that -

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

RECEIVED

Office of Oil and Gas Well Operator Stone Energy Corporation

MAR 13 2018

By [Signature]
Title Land Coordinator

Received
Office of Oil & Gas

2018

WV Department of
Environmental Protection



47 10 302905

September 13, 2017

Mr. James Martin
West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304

Re: Smith 3H
Magnolia District, Wetzel County

Dear Mr. Martin,

EQT Production Company is submitting an application for a new well work permit for the above well number. Upon information and belief, Operator's lease and/ or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Vicki Roark'.

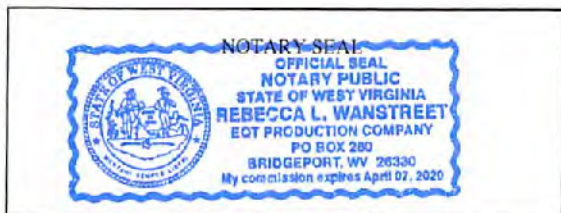
Vicki Roark
Permitting Supervisor-WV

4710302905

Certification of Notice is hereby given:

THEREFORE, I [Signature], have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator:	<u>EQT Production Company</u>	Address:	<u>115 Professional Place PO Box 280</u>
By:	<u>Victoria J Roark</u>		<u>Bridgeport WV 26330</u>
Its:	<u>Regional Land Supervisor</u>	Facsimile:	<u>304-848-0041</u>
Telephone:	<u>304-848-0076</u>	Email:	<u>vroark@eqt.com</u>



Subscribed and sworn before me this 21 day of September 2017.
Rebecca L Wanstreet Notary Public
 My Commission Expires 4-7-2020

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 9/21/17 Date Permit Application Filed: 9/21/17

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)
Name: See Attached
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: See Attached
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: See Attached
Address: _____

COAL OWNER OR LESSEE
Name: see attached
Address: _____

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

WW-6A
(8-13)

API NO. 47- 103 - 02905
OPERATOR WELL NO. SMITH 3H
Well Pad Name: SMITH

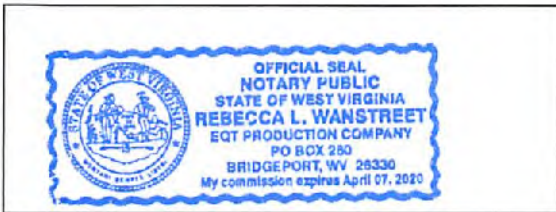
Notice is hereby given by:

Well Operator: EQT Production Company
Telephone: 304-848-0076
Email: vroark@eqt.com

Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Facsimile: 304-848-0041

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



[Handwritten signature]

Subscribed and sworn before me this 21 day of September 2017.

Rebecca L. Wanstreet Notary Public

My Commission Expires 4-7-2020

47 10 302905

Surface Owners, Surface Owners (road or other disturbance), Surface Owners (AST) and Coal: ✓

Charlotte Smith
440 Farm Road
New Martinsville WV 26155

4710302905

Topo Quad: NEW MARTINSVILLE, WV - OHIO 7.5'

Scale: 1" = 1000'

County: WETZEL

Date: 29 JUNE 2017

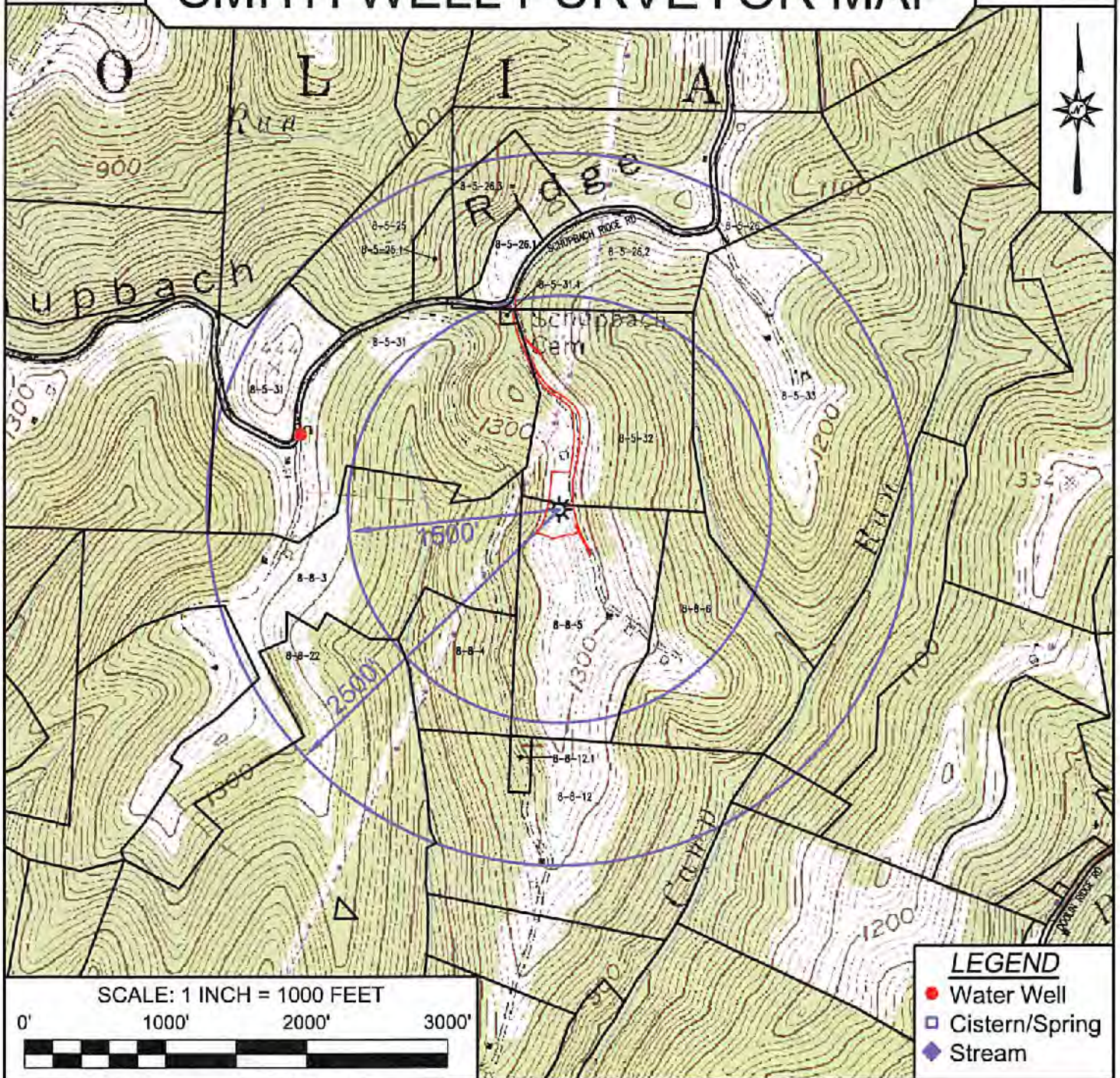
District: MAGNOLIA

Project No: 0492-17

Water

SMITH WELL PURVEYOR MAP

Topo



SCALE: 1 INCH = 1000 FEET

0' 1000' 2000' 3000'

LEGEND

- Water Well
- Cistern/Spring
- ◆ Stream

SURVEYING AND MAPPING SERVICES PERFORMED BY:



PREPARED FOR:

EQT Production Co. Inc.
115 Professional Place, P.O. Box 280
Bridgeport, WV 26330



STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.

Date of Notice: 09/12/2017 Date Permit Application Filed: 09/22/2017

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

- HAND DELIVERY
- CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Charlotte Smith
Address: 440 Farm Road
New Martinsville, WV 26155

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: WV UTM NAD 83 Easting: 516226.57
County: Wetzel Northing: 4388548.06
District: Magnolia Public Road Access: Wetzel County Route 22
Quadrangle: New Martinsville Generally used farm name: Smith, Sonny & Charlotte
Watershed: Tributary of of Doolin Run

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: EQT Production Company
Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Telephone: 304-848-0075
Email: vroark@eqt.com
Facsimile: 304-848-0041

Authorized Representative: Victoria Roark
Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Telephone: 304-848-0076
Email: vroark@eqt.com
Facsimile: 304-848-0041

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Surface Owners, Surface Owners (road or other disturbance), Surface Owners (AST) and Coal:

Charlotte Smith
440 Farm Road
New Martinsville WV 26155

47 10 302905

4710302905

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL

WAIVER

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Surface Owner Waiver:

I, Charlotte Smith, hereby state that I have read the notice provisions listed above and hereby waive the notice requirements under West Virginia Code § 22-6A-16(b) for the tract of land as follows:

State: WV
County: Wetzel
District: Magnolia
Quadrangle: New Martinsville
Watershed: Tributary of of Doolin Run

UTM NAD 83 Easting: 516226 57
Northing: 4388548 06
Public Road Access: Wetzel County Route 22
Generally used farm name: Smith, Sonny & Charlotte

Name: Charlotte Smith
Address: 440 Farm Road
New Martinsville, WV 26155

Signature: Charlotte L. Smith
Date: 14 Sept. 2017

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacy.officer@wv.gov.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 9/21/17 Date Permit Application Filed: 9/21/17

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL RETURN RECEIPT REQUESTED
- HAND DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: <u>See Attached</u>	Name: _____
Address: _____	Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>WV</u>	UTM NAD 83 Easting: <u>518226.57</u>
County: <u>Wetzel</u>	Northing: <u>4388548.06</u>
District: <u>Magnolia</u>	Public Road Access: <u>Wetzel County Route 22</u>
Quadrangle: <u>New Martinsville</u>	Generally used farm name: <u>Smith, Sonny & Charlotte</u>
Watershed: <u>Tributary of of Doolin Run</u>	

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: <u>EQT Production Company</u>	Address: <u>115 Professional Place PO Box 280</u>
Telephone: <u>304-848-0076</u>	<u>Bridgeport WV 26330</u>
Email: <u>vroark@eqt.com</u>	Facsimile: <u>304-848-0041</u>

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Surface Owners, Surface Owners (road or other disturbance), Surface Owners (AST) and Coal:

Charlotte Smith
440 Farm Road
New Martinsville WV 26155

47 10 302905

/



4710302905

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505

Jim Justice
Governor

Thomas J. Smith, P. E.
Secretary of Transportation/
Commissioner of Highways

July 26, 2017

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the Smith Pad, Wetzel County **47-103-02905 F**

Smith 1H Smith 2H Smith 3H Smith 4H
Smith 5H Smith 6H Smith 8H

Dear Mr. Martin,

This well site will be accessed from an encroachment permit 06-2013-0010 to be transferred EQT Production Company for access to the State Road for a well site located off of Wetzel County Route 22 SLS. This permit must be approved by the DOH before construction is begun.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

Cc: Nick Bumgardner
EQT Production Company
CH, OM, D-6
File

Anticipated Frac Additives
Chemical Names and CAS numbers

47 10302905

<u>Material</u>	<u>Ingredient</u>	<u>CAS Number</u>
Water		
Sand	Hydrotreated light petroleum distillate	14808-60-7
	Tributyl tetradecyl phosphonium chloride	64742-47-8
Friction Reducer	Ammonium chloride	81741-28-8
Biocide	Hydrochloric Acid	12125-02-9
Scale Inhibitor	Propargyl Alcohol	7647-01-0
15% Hydrochloric Acid	Methanol	107-19-7
Corrosion Inhibitor	Guar Gum	67-56-1
Corrosion Inhibitor	Sodium Persulfate	9000-30-0
Gelling Agent	Potassium Carbonate	7775-27-1
Oxidizing Breaker		584-08-7
Buffering Agent		

DMA
10-3-17

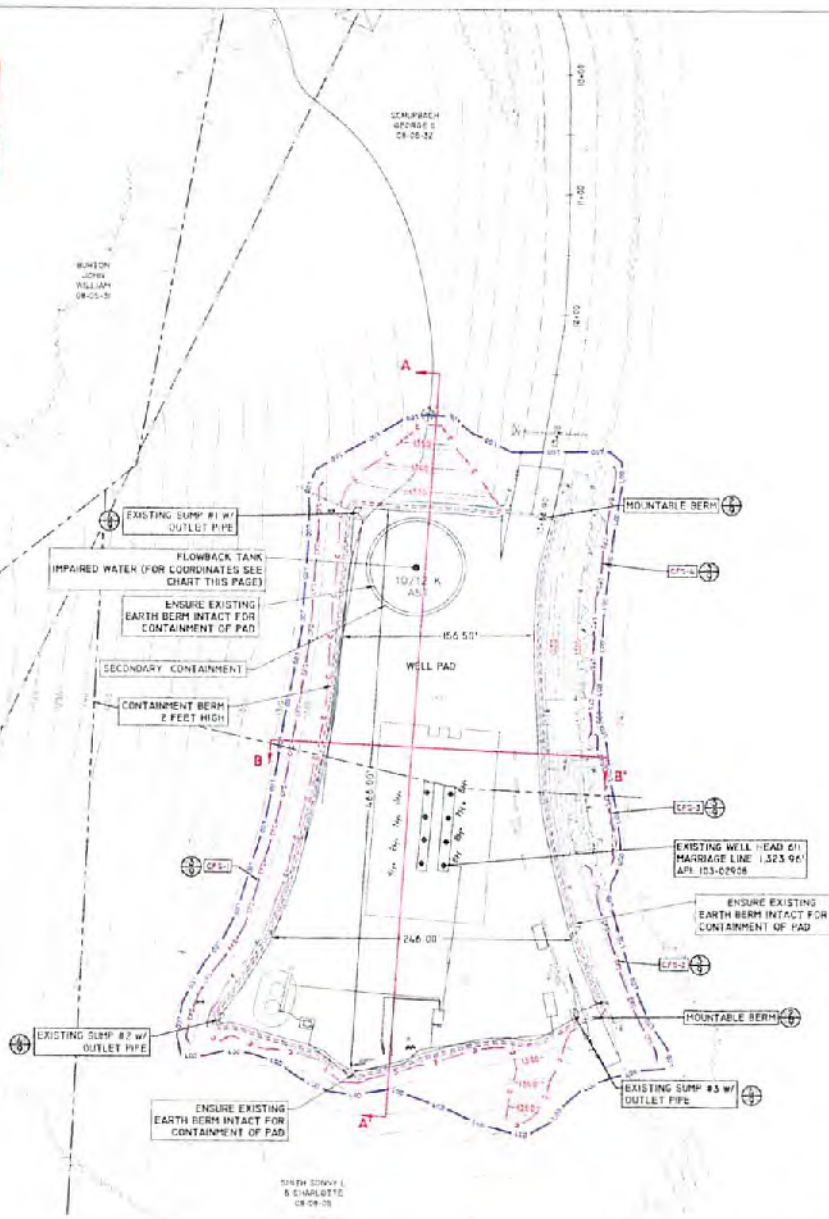
RECEIVED
Office of Oil and Gas

OCT 11 2017

WV Department of
Environmental Protection

**WVDEP O&G
ACCEPTED AS-BUILT**
12/1 9/13/2017

4710302905



RECEIVED
Office of Oil and Gas
OCT 11 2017

WV Department of
Environmental Protection

COORDINATES					
WELL NUMBER	SP. NUMBER	NAD 83	NAD 27	UTM (NAD83)	
SMITH 34*	103-02901	LAT = 39 49 53.37 LONG = 80 40 58.39	LAT = 39 49 48.237 LONG = 80 40 58.39	N 439861.903 E 516229.336	
SMITH 34*	103-02781	LAT = 39 49 48.237 LONG = 80 40 58.39	LAT = 39 49 48.237 LONG = 80 40 58.39	N 439861.903 E 516229.336	
SMITH 34*	103-02782	LAT = 39 49 48.237 LONG = 80 40 58.39	LAT = 39 49 48.237 LONG = 80 40 58.39	N 439861.903 E 516229.336	
SMITH 34*	103-02783	LAT = 39 49 48.237 LONG = 80 40 58.39	LAT = 39 49 48.237 LONG = 80 40 58.39	N 439861.903 E 516229.336	
SMITH 34*	103-02784	LAT = 39 49 48.237 LONG = 80 40 58.39	LAT = 39 49 48.237 LONG = 80 40 58.39	N 439861.903 E 516229.336	
SMITH 34*	103-02785	LAT = 39 49 48.237 LONG = 80 40 58.39	LAT = 39 49 48.237 LONG = 80 40 58.39	N 439861.903 E 516229.336	
SMITH 34*	103-02786	LAT = 39 49 48.237 LONG = 80 40 58.39	LAT = 39 49 48.237 LONG = 80 40 58.39	N 439861.903 E 516229.336	
SMITH 34*	103-02787	LAT = 39 49 48.237 LONG = 80 40 58.39	LAT = 39 49 48.237 LONG = 80 40 58.39	N 439861.903 E 516229.336	
SMITH 34*	103-02788	LAT = 39 49 48.237 LONG = 80 40 58.39	LAT = 39 49 48.237 LONG = 80 40 58.39	N 439861.903 E 516229.336	
SMITH 34*	103-02789	LAT = 39 49 48.237 LONG = 80 40 58.39	LAT = 39 49 48.237 LONG = 80 40 58.39	N 439861.903 E 516229.336	
SMITH 34*	103-02790	LAT = 39 49 48.237 LONG = 80 40 58.39	LAT = 39 49 48.237 LONG = 80 40 58.39	N 439861.903 E 516229.336	

COORDINATES			
DESCRIPTION	NAD 83	NAD 27	UTM (NAD83)
WELL PAD	LAT = 39 49 48.237 LONG = 80 40 58.39	LAT = 39 49 48.237 LONG = 80 40 58.39	N 439861.903 E 516229.336
WELL PAD	LAT = 39 49 48.237 LONG = 80 40 58.39	LAT = 39 49 48.237 LONG = 80 40 58.39	N 439861.903 E 516229.336
FLOWBACK TANK	LAT = 39 49 48.237 LONG = 80 40 58.39	LAT = 39 49 48.237 LONG = 80 40 58.39	N 439861.903 E 516229.336



LEGEND

- PROPOSED BERM
- EXISTING BERM
- BERM FLOW
- EXISTING CONTAINMENT
- PROPOSED CONTAINMENT
- EXISTING FLOWBACK TANK
- LINE OF DISTURBANCE
- SETBACK
- EXISTING PIPE SIZE
- TOP BERM
- CPT
- P&A
- 2" BERM
- MOUNTABLE BERM
- GAS LINE
- O&G PIPE
- STREAM
- WETLANDS
- RIPRAP APRON
- COLLECTOR
- WELL BFD

AREA			
DESCRIPTION	QUANTITY	UNITS	
CLEANING AND GRUBBING			
DIRT CLEANING	10	ACRES	
PROBING	5	ACRES	
SITE OF DISTURBANCE			
AREA	5	ACRES	
ENVIRONMENTAL IMPACTS			
# OF IMPACTS	TOTAL LENGTH	TOTAL AREA	
	STREAMS		
	WETLANDS		
EARTHWORK QUANTITIES			
DESCRIPTION	QUANTITY	UNITS	
TOTAL PROJECT			
CUT	2.17	CY	
FILL	1.77	CY	
NET (CUT)	0.40	CY	

NOTE
(*) WELLS MARKED WITH AN ASTERISK (*) ARE APPROXIMATE THEY ARE NOT IN PRODUCTION AND WERE COVERED WITH PROTECTIVE STEEL PLATES AT THE TIME OF SURVEY

*Dr H
10-3-17*

NOTE: DRAWING WAS CREATED ON 22x34 PAPER. (1)X(7) DRAWINGS ARE HALF SCALE. REFER TO SCALE BAR FOR PROPER SCALING



123 PROFESSIONAL PLACE
PROFESSIONAL BUILDING FOUR
BRIARCLIFF, WV 26030

**S MITH WELL SITE
DETAIL SITE PLAN**



REVISIONS

NO.	DATE	DESCRIPTION



DRAWN BY: TCM
CHECKED BY: LHM
DATE: 08/01/17
SCALE: AS SHOWN
JOB NO:
PROJECT NAME: SMITH WELL SITE
SHEET NO. 7